

**§ 71.31**

**10 CFR Ch. I (1–1–03 Edition)**

**TABLE III—PERMISSIBLE MASS OF URANIUM-235  
PER FISSILE MATERIAL SHIPMENT APPLICABLE  
TO § 71.24(c)(6)(i)—Continued**  
[Nonuniform distribution]

Uranium enrichment in weight percent of uranium-235 not exceeding	Permissible maximum grams of ura- nium-235 per consignment
9 .....	675
8.5 .....	690
8 .....	710
7.5 .....	730
7 .....	750
6.5 .....	780
6 .....	810
5.5 .....	850
5 .....	900
4.5 .....	950
4 .....	1,000
3.5 .....	1,100
3 .....	1,250
2.5 .....	1,500
2 .....	2,050
1.5 .....	3,400
1.35 .....	4,000
1 .....	8,500
0.92 .....	15,000

**TABLE IV—PERMISSIBLE MASS OF URANIUM-235  
PER FISSILE MATERIAL SHIPMENT APPLICABLE  
TO § 71.24(c)(6)(ii)**  
[Uniform distribution]

Uranium enrichment in weight percent of uranium-235 not exceeding	Permissible maximum grams of ura- nium-235 per consignment
4 .....	1,050
3.5 .....	1,150
3 .....	1,400
2.5 .....	1,800
2 .....	3,000
1.5 .....	7,000
1.35 .....	10,000

**Subpart D—Application for  
Package Approval**

**§ 71.31 Contents of application.**

(a) An application for an approval under this part must include, for each proposed packaging design, the following information:

(1) A package description as required by § 71.33;

(2) A package evaluation as required by § 71.35; and

(3) A quality assurance program description, as required by § 71.37, or a reference to a previously approved quality assurance program.

(b) Except as provided in § 71.13, an application for modification of a pack-

age design, whether for modification of the packaging or authorized contents, must include sufficient information to demonstrate that the proposed design satisfies the package standards in effect at the time the application is filed.

(c) The applicant shall identify any established codes and standards proposed for use in package design, fabrication, assembly, testing, maintenance, and use. In the absence of any codes and standards, the applicant shall describe and justify the basis and rationale used to formulate the package quality assurance program.

**§ 71.33 Package description.**

The application must include a description of the proposed package in sufficient detail to identify the package accurately and provide a sufficient basis for evaluation of the package. The description must include—

(a) With respect to the packaging—

(1) Classification as Type B(U), Type B(M), or fissile material packaging;

(2) Gross weight;

(3) Model number;

(4) Identification of the containment system;

(5) Specific materials of construction, weights, dimensions, and fabrication methods of—

(i) Receptacles;

(ii) Materials specifically used as nonfissile neutron absorbers or moderators;

(iii) Internal and external structures supporting or protecting receptacles;

(iv) Valves, sampling ports, lifting devices, and tie-down devices; and

(v) Structural and mechanical means for the transfer and dissipation of heat; and

(6) Identification and volumes of any receptacles containing coolant.

(b) With respect to the contents of the package—

(1) Identification and maximum radioactivity of radioactive constituents;

(2) Identification and maximum quantities of fissile constituents;

(3) Chemical and physical form;

(4) Extent of reflection, the amount and identity of nonfissile materials used as neutron absorbers or moderators, and the atomic ratio of moderator to fissile constituents;

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- (5) Maximum normal operating pressure;
- (6) Maximum weight;
- (7) Maximum amount of decay heat; and
- (8) Identification and volumes of any coolants.

### § 71.35 Package evaluation.

The application must include the following:

- (a) A demonstration that the package satisfies the standards specified in subparts E and F of this part;
- (b) For a fissile material package, the allowable number of packages that may be transported in the same vehicle in accordance with § 71.59; and
- (c) For a fissile material shipment, any proposed special controls and precautions for transport, loading, unloading, and handling and any proposed special controls in case of an accident or delay.

### § 71.37 Quality assurance.

- (a) The applicant shall describe the quality assurance program (see Subpart H of this part) for the design, fabrication, assembly, testing, maintenance, repair, modification, and use of the proposed package.
- (b) The applicant shall identify any specific provisions of the quality assurance program that are applicable to the particular package design under consideration, including a description of the leak testing procedures.

### § 71.38 Renewal of a certificate of compliance or quality assurance program approval.

- (a) Except as provided in paragraph (b) of this section, each Certificate of Compliance or Quality Assurance Program Approval expires at the end of the day, in the month and year stated in the approval.
- (b) In any case in which a person, not less than 30 days before the expiration of an existing Certificate of Compliance or Quality Assurance Program Approval issued pursuant to the part, has filed an application in proper form for renewal of either of those approvals, the existing Certificate of Compliance or Quality Assurance Program Approval for which the renewal appli-

cation was filed shall not be deemed to have expired until final action on the application for renewal has been taken by the Commission.

(c) In applying for renewal of an existing Certificate of Compliance or Quality Assurance Program Approval, an applicant may be required to submit a consolidated application that incorporates all changes to its program that, are incorporated by reference in the existing approval or certificate, into as few referenceable documents as reasonably achievable.

### § 71.39 Requirement for additional information.

The Commission may at any time require additional information in order to enable it to determine whether a license, certificate of compliance, or other approval should be granted, renewed, denied, modified, suspended, or revoked.

## Subpart E—Package Approval Standards

### § 71.41 Demonstration of compliance.

(a) The effects on a package of the tests specified in § 71.71 (“Normal conditions of transport”), and the tests specified in § 71.73 (“Hypothetical accident conditions”), and § 71.61 (Special requirement for irradiated nuclear fuel shipments”), must be evaluated by subjecting a specimen or scale model to a specific test, or by another method of demonstration acceptable to the Commission, as appropriate for the particular feature being considered.

(b) Taking into account the type of vehicle, the method of securing or attaching the package, and the controls to be exercised by the shipper, the Commission may permit the shipment to be evaluated together with the transporting vehicle.

(c) Environmental and test conditions different from those specified in §§ 71.71 and 71.73 may be approved by the Commission if the controls proposed to be exercised by the shipper are demonstrated to be adequate to provide equivalent safety of the shipment.